

MANUAL COMPRESSION PRESSES

PHI



Model PW 220C with optional cure and cooling timers with auto press opening



Model Q - 240C
30 ton capacity

TWO-STAGE HYDRAULIC PUMP—The PHI patented, manual high/low pressure pump is the most efficient and reliable ever developed. It automatically converts from low pressure/high volume to high pressure/low volume for ease of operation and accurate control throughout the range from 0 lbs. to full press capacity, with optional low pressure instrumentation.

DUMP/DECOMPRESSION VALVE—The two-stage PHI decompression and dump valve enables the operator to adjust pressure to laboratory accuracy. The two-stage design permits precisely bleeding off pressure as required, in the event of pressure overshoot. In addition, the valve provides gradual decompression and fast or slow press opening.

STANDARD FEATURES:

- Rigid, all-steel construction
- Electric, water cooled, ground steel platens
- Platen sizes from 8" x 8" to 18 1/2" x 18 1/2"
- Thermal insulation between bolsters and heated platens
- Patented two-stage manual hydraulic pump
- Two-stage dump/ decompression valve
- Up acting, single acting, low friction ram
- Removable adapter for increased daylight
- Unitized frame construction
- Digital temperature controllers
- Easy-to-read, accurate pressure gage
- Enclosed, contamination-free hydraulic system
- Quiet, trouble-free operation

PROVEN DESIGN FEATURES

UNITIZED FRAME—In PHI manual compression presses, the heavy duty frame columns are wide, solid steel plates structurally joined to the solid steel bolsters. Bolsters are ground, and the frame is carefully aligned to insure accurate platen parallelism. The moving bolster is fully guided. This remarkably strong, rigid design affords minimal deflection, assures accurate mold mating and uniform pressure application under all operating conditions.

MANUAL OPERATION	20 TON CAPACITY		30 TON CAPACITY		50 TON CAPACITY		
	P-21 SERIES	PW-22 SERIES	Q-23 SERIES	Q-24 SERIES	B-23 SERIES	B-24 SERIES	B-25 SERIES
Platen Size (inches)	8x8	12 1/2 X 9 1/2	12 1/2 X 12 1/2	18 1/2 X 12 1/2	12 1/2 X 12 1/2	18 1/2 X 12 v	18 1/2 X 18 1/2
Watts per Platen	800	1500	2000	3000	2000	3000	4000
Press Electric Service	120V 240V	AS SPECIFIED PER CUSTOMER ^①					
Maximum Temperature (°F)	600	600	600	600	600	600	600
Heat Rise (°F/Min)	8	8	8	8	8	8	8
Ram Diameter (inches)	4	4	5	5	6 1/2	6 1/2	6 1/2
Ram Stroke (inches)	4	4	4	4	6	6	6
Daylight (adjustable) (inches)	4 to 8	4 to 8	4 to 8	4 to 8	6 to 10	6 to 10	6 to 10
Control Range (tons)	3 to 20	3 to 20	3 to 30	3 to 30	5 to 50	5 to 50	5 to 50
Height (inches)	33"	33"	30"	36"	31"	36"	44"
Base Dimensions (inches)	28x 16	28x24	31 x 17	37x 17	31 x 17	37x 17	37x 19
Weight (lbs)	340	465	730	965	930	1220	1500

^①As specified: 208V-single or 3 phase; 240V-single or 3 phase; 380V-3 phase; 460V-3 phase; either 50 or 60 cycle service

OPTIONAL

- High pressure precision readout gauges
- Low pressure precision readout gauges
- Solid state, adjustable timers
- Intermediate platen for increased productivity
- Steam heated steel platens
- Aluminum platens
- Plain (non-heated) steel platens
- Stainless steel – high temperature platens - 600°F, 800°F and 1000°F
- Rapid platen heating rates
- T-slot platens
- Peripheral platen insulation
- Floor standing bases
- Programmable temperature controllers
- Motorized hydraulic systems



Model B 240C
50 ton capacity with
optional motorized
system & cure timer

PHI